



## **WATER-QUALITY MAP**

contributes to the relatively large concentrations of iron and manganese in water from the aquifers.

Hardness values for all samples collected are presented on the water-quality map. bedrock aquifers may contain concentrations iron, manganese, and dissolved solids in excess of those recommended by the U.S. Environmental Protection Agency (1977) for drinking water. Locally, concentrations of fluoride and selenium may occur in excess of mandatory standards for drinking water established by the Colorado Department of Health (1977) and the U.S. Environmental Protection Agency (1976).

that the site is located in the area go the sixth principal meridian; "N", Mexico principal meridian. The sec indicates the quadrant in which the spring is located. Four quadrants are the intersection of the base line principal meridian--A indicates the quadrant, B the northwest, C the southw D the southeast. The first three indicate the township, the next three indicate the range, and the last two indicate the section in which the located. The letters following the number locate the well or spring within section. The first letter denotes the section, the second the quarter-quarter

The diagram illustrates a 16-section land survey map. The sections are labeled with letters A through P along the top and numbers 1 through 4 along the right side. A specific section, Section 15, is highlighted with a dashed border and labeled "Sec. 15". An arrow points from the text "WELL SCO1308615CBC1" to a point located in the center of Section 15. The text "R. 86 W." is also visible near the bottom left corner of the map.

	46	SCO1308615CBC
	47	SCO1308603ABC
	48	NA05000233CDC
	49	NA05000236BBC
	50	NB05000125ACD
	51	NA05000219CDA
	52	NA05000119DCD
	53	NA05000119DCB
	54	NA05000214CCB
	55	NB05000114CAA
	56	NA05000114BAC DO.
<b>E</b>	57	NA05100128DCG
	58	SC01508526DAC
	59	NA05100219DDB
	60	NB05000134DAB
	61	NA05100133CCB
	62	NA05000133CDC
	63	NA05100122BCA
	64	NB05000113CDC
	65	SC01508513CAB
	66	SC01408522DCD
	67	NA05100128DCD
	68	NA05100133CBA

	77-04-29	MANCOS SHALE	SP	--
1	77-04-28	MANCOS SHALE	SP	--
	76-07-28	DAKOTA SANDSTONE	SP	--
	76-07-28	DAKOTA SANDSTONE	SP	--
1	77-08-24	DAKOTA SANDSTONE	GW	7.00
	77-02-11	DAKOTA SANDSTONE	SP	--
	77-02-12	DAKOTA SANDSTONE	GW	239.00
	77-08-19	DAKOTA SANDSTONE	GW	113.00
	76-07-28	DAKOTA SANDSTONE	SP	--
	76-10-29	DAKOTA SANDSTONE	GW	178.00
	76-07-27	DAKOTA SANDSTONE	SP	--
	76-10-26	DAKOTA SANDSTONE	SP	--
1	76-08-27	DAKOTA SANDSTONE	GW	--
	76-10-28	DAKOTA SANDSTONE	SP	--
	77-02-10	DAKOTA SANDSTONE	SP	--
1	74-06-12	BURRO CANYON FORMATION	GW	--
1	77-08-17	BURRO CANYON FORMATION	GW	33.00
	74-06-10	MORRISON FORMATION	GW	--
	74-06-07	MORRISON FORMATION	GW	--
1	76-10-14	ENTRADA SANDSTONE	GW	-157.00
1	76-10-28	ENTRADA SANDSTONE	GW	-58.00
1	77-04-30	JUNCTION CREEK SANDSTONE	SP	--
	76-08-26	MORRISON FORMATION	GW	--
	77-08-17	MORRISON FORMATION	GW	134.00

--	75	7.3	4.0	32	0	9.5	2.0
--	295	7.4	3.5	160	18	58	3.0
--	245	6.9	8.0	110	7	33	6.0
--	105	6.1	14.0	38	11	12	2.0
125	500	6.6	11.0	230	55	58	20
--	335	8.1	5.5	170	7	48	11
275	490	4.9	9.5	190	180	42	20
153	320	7.5	14.0	140	41	36	12
--	225	7.4	4.5	90	24	25	6.7
423	1180	7.4	11.0	78	0	20	6.8
--	440	6.8	7.0	210	71	58	16
--	360	7.2	8.0	200	58	56	15
--	560	7.2	11.0	--	--	--	--
--	260	7.6	10.0	230	48	72	11
--	450	8.0	5.5	230	4	50	26
125	586	7.2	9.0	220	D	60	17
95	320	7.6	13.5	180	19	47	14
120	619	7.8	9.0	180	19	48	14
85	355	7.8	9.0	180	31	50	14
797	470	7.3	B.0	130	0	40	6.7
1480	450	7.6	13.5	170	18	44	15
--	760	7.4	27.0	290	0	78	22
65	460	7.4	11.0	230	23	68	14
405	1280	7.9	15.0	520	280	140	42

1.9	11	.1	1.8	42	0	34	3.4
2.6	3	.1	.7	170	0	139	11
5.0	9	.2	1.9	122	0	100	25
1.8	9	.1	1.0	33	0	27	42
14	11	.4	7.0	210	0	170	84
B.0	9	.3	2.4	193	0	158	2.5
10	10	.3	6.2	3	0	2	60
8.6	11	.3	4.3	120	--	98	6.1
5.8	12	.3	1.5	81	0	66	5.2
310	87	15	16	903	0	741	58
6.8	6	.2	2.9	170	0	139	43
7.0	7	.2	2.9	175	0	144	18
--	--	--	--	--	--	--	--
4.7	4	.1	1.4	216	0	177	8.7
2.5	2	.1	2.9	278	0	228	4.4
31	22	.9	10	276	0	226	28
5.4	6	.2	2.2	190	0	160	7.6
53	38	1.7	9.0	193	0	158	4.9
5.7	6	.2	2.0	185	0	152	4.7
20	24	.8	9.1	158	0	130	13
11	12	.4	2.6	187	0	153	7.5
65	32	1.7	7.7	360	0	295	23
5.5	5	.2	1.9	249	0	204	16
34	12	.6	9.5	290	0	240	5.8

7.3	.9	.1	7.5	52	.00	.02
12	.5	.1	7.3	169	.13	.02
11	2.9	.3	18	139	.10	.06
8.0	3.0	.1	9.3	57	.71	.01
97	4.1	.5	20	331	--	--
17	2.6	.3	23	208	.11	.04
200	3.5	.0	35	324	.97	.03
61	1.9	.4	30	215	.05	.00
6.8	1.0	.2	14	102	.20	.01
3.4	14	4.6	7.8	829	.01	.01
72	3.8	.5	18	264	.38	.02
67	3.8	.5	18	258	.41	.01
--	--	--	--	--	--	--
30	.8	.1	8.8	236	.12	.01
14	1.9	.1	8.7	246	.41	.00
62	9.5	.7	25	353	.25	.02
30	1.4	.2	9.7	206	.56	.01
110	19	3.8	4.4	359	.07	.01
32	1.6	.3	8.5	206	.15	.01
51	2.1	1.7	8.8	219	.06	.02
41	3.6	.3	8.8	219	.01	.01
95	18	1.7	20	485	.04	.03
24	.8	.2	11	250	.37	.00
360	7.3	.7	20	758	.31	.02

## SYSTEM OF NUMBERING WELLS AND SPR

INGS

table of  
well or  
umbers are  
Management  
show the  
township,  
e section.  
of well or  
The first  
ber means

section. The letters are assigned to each section in a counterclockwise beginning with (A) in the northeast corner. Letters are assigned within each quarter-quarter section in the same manner. Where two or more subdivisions are present within the smallest subdivision, numbers beginning with 1 are added in which the wells or springs were located. For example, SC01308615CBC1 indicates a spring in the southwest quarter of the southwest quarter of section T. 13 S., R. 86 W.

	70 71 72 73 74 75
<b>F</b>	SC01 SC01 SC01 SC01 SC01 SC01

  

	76 77 78 79 80 81 82 83 84
<b>G</b>	NA05 NA05 SC01 SC01 SC01 SC01 SC01 SC01 SC01

!GW, well; SP, spring  
\*Negative number refer

308415BAC	76-10-14	GOTHIC-MINIUM FORMATION	SP
30842BADD	76-10-14	MAROON FORMATION	SP
308511DAC	76-10-26	MAROON FORMATION	SP
408319CBC1	77-04-30	LEADVILLE LIMESTONE	SP
408319CBC	76-10-28	SAWATCH QUARTZITE	SP
408522DDA1	77-04-28	SAWATCH QUARTZITE	SP
100122DDB	77-02-10	GRANITIC ROCKS	SP
100122DAD	76-08-27	GRANITIC ROCKS	GW
508318DBC	76-08-23	GRANITIC ROCKS	SP
508311BBB	76-07-25	GRANITIC ROCKS	SP
408127BCD	76-07-25	GRANITIC ROCKS	SP
408220DCD	76-08-23	GRANITIC ROCKS	SP
408221DBD	74-06-14	GRANITIC ROCKS	GW
408114BAC	76-08-23	GRANITIC ROCKS	SP
408418CAC	76-07-24	GRANITIC ROCKS	SP

--	--	365	8.4	5.5	180	0	59
--	--	230	8.4	1.0	98	0	34
--	--	240	7.7	6.0	120	0	35
--	--	240	8.0	9.5	140	15	34
--	--	365	8.0	4.0	210	30	63
--	--	375	7.8	4.0	200	42	53
--	--	420	8.0	5.5	230	11	54
21.00	42	400	7.3	10.0	190	7	56
--	--	100	7.6	17.0	39	0	10
--	--	82	7.8	3.0	32	1	9.2
--	--	130	7.5	8.0	50	0	13
--	--	120	7.8	5.0	51	0	16
17.00	34	95	7.0	2.0	41	0	11
--	--	50	8.2	7.0	18	5	5.
--	--	650	7.4	23.0	270	28	77

15	.7	1	.0	.8	195	0	180
3.1	1.9	4	.1	.5	125	0	103
8.0	2.6	4	.1	.5	155	0	127
13	.9	1	.0	.4	150	0	123
12	.4	0	.0	.3	215	0	176
16	2.4	3	.1	.7	190	0	156
23	5.5	5	.2	2.3	266	0	218
12	4.8	5	.2	1.5	222	0	182
3.4	4.9	21	.3	.6	48	0	39
2.2	1.7	10	.1	.4	38	0	31
4.2	3.5	13	.2	1.1	67	0	55
2.8	4.1	15	.2	.7	70	0	57
3.2	4.0	18	.3	.3	54	0	44
1.0	1.6	15	.2	.8	16	0	13
20	35	21	.9	5.9	301	0	247

1.2	5.4	.5	.1	5.4	162	.16
.8	2.5	.5	.1	7.7	112	.03
4.9	2.3	.5	.1	6.2	133	.29
2.4	13	.5	.1	6.5	143	.11
3.4	20	.5	.1	5.1	209	.36
4.8	37	1.2	.1	6.3	211	.05
4.3	13	3.7	.1	11	247	.60
18	7.7	4.6	.2	14	210	.00
1.9	4.1	.6	.3	16	64	.03
1.0	5.3	.5	.2	9.1	48	.15
3.4	5.2	1.2	.1	14	78	.56
1.8	5.7	.6	.1	15	80	.15
8.6	3.3	.1	.1	11	61	.26
.2	4.7	.5	.1	5.5	30	.43
19	81	11	1.4	18	398	.14

.01	1	--	50	0	0
.01	0	--	60	0	0
.01	0	--	40	10	0
.02	0	--	0	0	0
.01	0	--	20	0	1
.02	1	--	20	0	0
<hr/>					
.01	0	--	120	10	2
.01	0	--	10	0	0
.00	0	--	70	0	0
.01	1	--	10	0	0
.02	1	--	10	0	0
.00	0	--	10	0	0
.01	--	20	330	30	--
.00	0	--	10	0	0
.03	8	--	10	0	0

# RECONNAISSANCE OF GROUND-WATER RESOURCES IN THE VICINITY OF GUNNISON AND CRESTED BUTTE, WEST-CENTRAL COLORADO

By  
F. Giles  
1980